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1 **Reducing coherence overhead of barrier synchronization in software DSMs**
Jae Bum Lee, Chu Shik Jhon
November 1998 Supercomputing '98: Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)
Publisher: IEEE Computer Society
Full text available: 📄 pdf(308.05 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 9, Citation Count: 0

Software Distributed Shared Memory (SDSM) systems usually have the large coherence granularity that is imposed by the underlying virtual memory page size. To alleviate the coherence overheads such as the net worktraffic to preserve the coherence, or page ...

Keywords: automatic-update, data coherence, data dependency analysis, relaxed memory models, run-time support, software distributed shared memory

2 **Properties of the working-set model**
Peter J. Denning, Stuart C. Schwartz
June 1972 ACM SIGOPS Operating Systems Review,   Volume 6 Issue 1/2
Publisher: ACM
Full text available: 📄 pdf(36.04 KB)   Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 12, Citation Count: 0

A program's working set W (t, T) at time t is the set of distinct pages among the T most recently referenced pages. Relations between the average working-set size, the missing-page rate, and the interreference-interval distribution may be derived both ...

3 **An instant and accurate size estimation method for joins and selections in a retrieval-intensive environment**
Wei Sun, Yibei Ling, Naphtali Rishe, Yi Deng
June 1993 ACM SIGMOD Record,   Volume 22 Issue 2
Publisher: ACM
Full text available: 📄 pdf(1.05 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 29, Citation Count: 19

This paper proposes a novel strategy for estimating the size of the resulting relation after an equi-join and selection using a regression model. An approximating series representing the underlying data distribution and dependency is derived ...

4 Properties of the working-set model

Peter J. Denning, Stuart C. Schwartz
March 1972 Communications of the ACM,   Volume 15 Issue 3
Publisher: ACM
Full text available: ❖ pdf(672.49 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 79,   Citation Count: 45

A program's working set W(t, T) at time t is the set of distinct pages among the T most
recently referenced pages. Relations between the average working-set size, the
missing-page rate, ...

Keywords: paging, paging algorithms, program behavior, program modeling, working-
set model

5 An instant and accurate size estimation method for joins and selections in a
retrieval-intensive environment

Wei Sun, Yibei Ling, Naphtali Rishe, Yi Deng
June 1993 SIGMOD '93: Proceedings of the 1993 ACM SIGMOD international conference
                on Management of data
Publisher: ACM
Full text available: ❖ pdf(1.05 MB)   Additional Information: full citation, abstract, references, cited by, index
                                                                                                   terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 29,   Citation Count: 19

This paper proposes a novel strategy for estimating the size of the resulting relation
after an equi-join and selection using a regression model. An approximating series
representing the underlying data distribution and dependency is derived ...

6 Properties of the working-set model

Peter J. Denning, Stuart C. Schwartz
October 1971 SOSP '71: Proceedings of the third ACM symposium on Operating systems
                 principles
Publisher: ACM
Full text available: ❖ pdf(28.37 KB)   Additional Information: full citation, abstract, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 5,   Citation Count: 1

This paper appears in the March, 1972, issue of the Communications of the ACM. Its
abstract is reproduced below. A program's working set W(t,T) at time t is the set of
distinct pages among the T most recently referenced pages. Relations between the
average ...

7 Proceedings of the 17th international conference on Computational linguistics -
Volume 2

Christian Boitet, Pete Whitelock
August 1998 proceeding   Volume 2
Publisher: Association for Computational Linguistics
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

This volume may come as a surprise to regular participants of the annual ACL
conferences. It is certainly more substantial in its weight and, hopefully, in its contents
as well. While the former is chiefly the result of the extremely difficult and ...

8 Proceedings of the 36th annual meeting on Association for Computational

Linguistics - Volume 1
Christian Boitet, Pete Whitelock
August 1998 proceeding   Volume 1
Publisher: Association for Computational Linguistics
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

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    Volume 1
Christian Boitet, Pete Whitelock
August 1998 proceeding   Volume 1
Publisher: Association for Computational Linguistics
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

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conferences. It is certainly more substantial in its weight and, hopefully, in its contents
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10 Proceedings of the 36th annual meeting on Association for Computational
    Linguistics - Volume 2
Christian Boitet, Pete Whitelock
August 1998 proceeding   Volume 2
Publisher: Association for Computational Linguistics
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

This volume may come as a surprise to regular participants of the annual ACL
conferences. It is certainly more substantial in its weight and, hopefully, in its contents
as well. While the former is chiefly the result of the extremely difficult and ...

11 Compiler-based I/O prefetching for out-of-core applications
Angela Demke Brown, Todd C. Mowry, Orran Krieger
May 2001 ACM Transactions on Computer Systems (TOCS),   Volume 19 Issue 2
Publisher: ACM

Full text available: pdf(499.03 KB)   Additional Information: full citation, abstract, references, cited by, index
terms, review

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 79,   Citation Count: 11

Current operating systems offer poor performance when a numeric application's
working set does not fit in main memory. As a result, programmers who wish to solve
"out-of-core" problems efficiently are typically faced with the onerous task ...

Keywords: compiler optimization, prefetching, virtual memory

12 Proxy-based acceleration of dynamically generated content on the world wide web:
    An approach and implementation
Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham
June 2004 ACM Transactions on Database Systems (TODS),   Volume 29 Issue 2
Publisher: ACM

Full text available: pdf(927.23 KB)   Additional Information: full citation, appendices and supplements, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 216,   Citation Count: 1

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, ...

Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

13 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: pdf(63.03 MB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 105,   Downloads (12 Months): 1438,   Citation Count: 3

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex ...

14 I/O reference behavior of production database workloads and the TPC benchmarks—an analysis at the logical level
Windsor W. Hsu, Alan Jay Smith, Honesty C. Young
March 2001 ACM Transactions on Database Systems (TODS),   Volume 26 Issue 1
Publisher: ACM
Full text available: pdf(5.42 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 156,   Citation Count: 8

As improvements in processor performance continue to far outpace improvements in storage performance, I/O is increasingly the bottleneck in computer systems, especially in large database systems that manage huge amoungs of data. The key to achieving ...

Keywords: I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference behavior, sequentiality, workload characterization

15 Path and cache conscious prefetching (PCCP)
Zhen He, Alonso Marquez
April 2007 The VLDB Journal — The International Journal on Very Large Data Bases,   Volume 16 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(582.94 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 92,   Citation Count: 0

Main memory cache performance continues to play an important role in determining the overall performance of object-oriented, object-relational and XML databases. An effective method of improving main memory cache performance is to prefetch or pre-load ...

Keywords: Caching, Clustering, Databases, Prefetching

16

Effect of node size on the performance of cache-conscious B+-trees
Richard A. Hankins, Jignesh M. Patel
June 2003 ACM SIGMETRICS Performance Evaluation Review, Volume 31 Issue 1
Publisher: ACM

Full text available: pdf(271.16 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 70,   Citation Count: 1

In main-memory databases, the number of processor cache misses has a critical impact on the performance of the system. Cache-conscious indices are designed to improve performance by reducing the number of processor cache misses that are incurred during ...

Keywords: B+-tree, cache-conscious, index

17 **Effect of node size on the performance of cache-conscious B+-trees**
Richard A. Hankins, Jignesh M. Patel
June 2003 SIGMETRICS '03: Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems
Publisher: ACM

Full text available: pdf(271.16 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 70,   Citation Count: 1

In main-memory databases, the number of processor cache misses has a critical impact on the performance of the system. Cache-conscious indices are designed to improve performance by reducing the number of processor cache misses that are incurred during ...

Keywords: B+-tree, cache-conscious, index

18 **Data page layouts for relational databases on deep memory hierarchies**
Anastassia Ailamaki, David J. DeWitt, Mark D. Hill
November 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 3
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(593.86 KB)   Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 74,   Citation Count: 3

Relational database systems have traditionally optimized for I/O performance and organized records sequentially on disk pages using the N-ary Storage Model (NSM) (a.k.a., slotted pages). Recent research, however, indicates that cache utilization ...

Keywords: Cache-conscious database systems, Disk page layout, Relational data placement

19 **Dynamic vp-tree indexing for n-nearest neighbor search given pair-wise distances**
Ada Wai-chee Fu, Polly Mei-shuen Chan, Yin-Ling Cheung, Yiu Sang Moon
July 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 2
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(232.09 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 66,   Citation Count: 10

For some multimedia applications, it has been found that domain objects cannot be represented as feature vectors in a multidimensional space. Instead, pair-wise distances between data objects are the only input. To support content-based retrieval, one ...

Keywords: Content-based retrieval, Indexing, Nearest neighbor search, Pair-wise distances, Updating

20 A cost model for query processing in high dimensional data spaces
Christian Böhm
June 2000 ACM Transactions on Database Systems (TODS), Volume 25 Issue 2
Publisher: ACM

Full text available: pdf(362.22 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 108,   Citation Count: 17

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research topic in multimedia databases is similarity search in large data ...

Keywords: cost model, multidimensional index

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